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By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bandman et al.

Title: HUMAN EXTRACELLULAR MATRIX PROTEINS

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SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 1E, 1F, 1G, 2A, 2B, 2C, 2D, 2E, 3A, 3B, 4A, 4B, and 4C, as seventeen (17) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

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If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 16<sup>th</sup> April 2001

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CCA	AGC	CCT	GGG	AAT	GCA	CAG	GCA	CAG	TGC	ACG	AAT	GGC	TTT	GAC	CTG	GAT	CGC
P	S	P	G	N	A	Q	A	Q	C	T	N	G	F	D	L	D	R
441		450				459					468			477			486
CAG	TCA	GGA	CAG	TGT	TTA	GAT	ATT	GAT	GAA	TGC	CGA	ACC	ATC	CCC	GAG	GCC	TGC
Q	S	G	Q	Q	C	L	D	I	E	C	R	T	I	P	E	A	C
495		504				513					522			531			540
CGA	GGA	GAC	ATG	ATG	TGT	GTT	AAC	CAA	AAT	GGC	GGG	TAT	TTA	TGC	ATT	CCC	CGG
R	G	D	M	M	C	V	N	Q	N	G	G	Y	L	C	I	P	R
549		558				567					576			585			594
ACA	AAC	CCT	GTG	TAT	CGA	GGG	CCC	TAC	TCG	AAC	CCC	TAC	TCG	ACC	CCC	TAC	TCA
T	N	P	V	Y	R	G	P	Y	S	N	P	Y	S	T	P	Y	S
603		612				621					630			639			648
GGT	CCG	TAC	CCA	GCA	GCT	GCC	CCA	CCA	CTC	TCA	GCT	CCA	AAC	TAT	CCC	ACG	ATC
G	P	Y	P	A	A	A	P	P	L	S	A	P	N	Y	P	T	I
657		666				675					684			693			702
TCC	AGG	CCT	CTT	ATA	TGC	CGC	TTT	GGA	TAC	CAG	ATG	GAT	GAA	AGC	AAC	CAA	TGT
S	R	P	L	I	C	R	F	G	Y	Q	M	D	E	S	N	Q	C
711		720				729					738			747			756
GTG	GAT	GTG	GAC	GAG	TGT	GCA	ACA	GAT	TCC	CAC	CAG	TGC	AAC	CCC	ACC	CAG	ATC
V	D	V	D	E	C	A	T	D	S	H	Q	C	N	P	T	Q	I
765		774				783					792			801			810

FIGURE 1B

819	828	837	846	855	864
TGC ATC AAT ACT GAA GGC GGG TAC ACC TGC TCC TGC ACC GAC GGA TAT TGG CTT C I N T E G G Y T C S C T D G Y W L					
873	882	891	900	909	918
CTG GAA GGC CAG TGC TTA GAC ATT GAT GAA TGT CGC TAT GGT TAC TGC CAG CAG L E G Q C L D I D E C R Y G Y C Q Q					
927	936	945	954	963	972
CTC TGT GCG AAT GTT CCT GGA TCC TAT TCT TGT ACA TGC AAC CCT GGT TTT ACC L C A N V P G G S Y S C C T C N P G F T					
981	990	999	1008	1017	1026
CTC AAT GAG GAT GGA AGG TCT TGC CAA GAT GTG AAC GAG TGT GCC ACC GAG AAC L N E D G R S C Q C D V N E C A T E N					
1035	1044	1053	1062	1071	1080
CCC TGC GTG CAA ACC TGC GTC AAC ACC TAC GGC TCT TTC ATC TGC CGC TGT GAC P C V Q T C C V N T Y G S F I C R C D					
1089	1098	1107	1116	1125	1134
CCA GGA TAT GAA CTT GAG GAA GAT GGC GTT CAT TGC AGT GAT ATG GAC GAG TGC P G Y E L E E E D G G V H C S D M D E C					
1143	1152	1161	1170	1179	1188
AGC TTC TCT GAG TTC CTC TGC CAA CAT GAG TGT GTG AAC CAG CCC GGC ACA TAC S F S E F L C O H E C V N Q P G T Y					

FIGURE 1C

1197 1206 1215 1224 1233 1242  
 TTC TGC TCC TGC CCT CCA GGC TAC ATC CTG CTG GAT GAC AAC CGA AGC TGC CAA  
 F C S C P P G Y I L L D D N R S C Q

1251 1260 1269 1278 1287 1296  
 GAC ATC AAC GAA TGT GAG CAC AGG AAC CAC ACG TGC AAC CTG CAG CAG ACG TGC  
 D I N E C E H R N H T C N L Q Q T C

1305 1314 1323 1332 1341 1350  
 TAC AAT TTA CAA GGC GGC TTC AAA TGC ATC GAC CCC ATC CGC TGT GAG GAG CCT  
 Y N L Q G G F K C I D P I R C E E P

1359 1368 1377 1386 1395 1404  
 TAT CTG AGG ATC AGT GAT AAC CGC TGT ATG TGT CCT GCT GAG AAC CCT GGC TGC  
 Y L R I S D N R C M C P A E N P G C

1413 1422 1431 1440 1449 1458  
 AGA GAC CAG CCC TTT ACC ATC TTG TAC CGG GAC ATG GAC GTG GTG TCA GGA CGC  
 R D Q P F T I L Y R D M D V V S G R

1467 1476 1485 1494 1503 1512  
 TCC GTT CCC GCT GAC ATC TTC CAA ATG CAA GCC ACG ACC CGC TAC CCT GGC GCC  
 S V P A D I F Q M Q A T T R Y P G A

1521 1530 1539 1548 1557 1566  
 TAT TAC ATT TTC CAG ATC AAA TCT GGC AAT GAG GGC AGA GAA TTT TAC ATG CGG  
 Y Y I F Q I K S G N E G R E F Y M R

FIGURE 1D

1593 1602 1611 1620

1575 1584 1593 1602 1611 1620  
CAA ACG GGC CCC ATC AGT GGC ACC CTG GTG ATG ACA CGC CCC ATC AAA GGG CCC  
Q T G P I S A T L V M T R P I K G P

1629 1638 1647 1656 1665 1674  
CGG GAA ATC CAG CTG GAC TTG GAA ATG ATC ACT GTC AAC ACT GTC ATC AAC TTC  
R E I Q L D L E M I T V N T V I N F

1683 1692 1701 1710 1719 1728  
AGA GGC AGC TCC GTG ATC CGA CTG CGG ATA TAT GTG TCG CAG TAC CCA TTC TGA  
R G S S V I R L R I Y V S Q Y P F

1737 1746 1755 1764 1773 1782  
GCC TCG GGC TGG AGC CTC CGA CGC TGC CTC TCA TTG GCA CCA AGG GAC AGG AGA  
AGA GAG GAA ATA ACA GAG AGA ATG AGA GCG ACA CAG ACG TTA GGC ATT TCC TGC

1791 1800 1809 1818 1827 1836  
AGA GAG GAA ATA ACA GAG AGA ATG AGA GCG ACA CAG ACG TTA GGC ATT TCC TGC  
1845 1854 1863 1872 1881 1890  
TGA ACG TTT CCC CGA AGA GTC AGC CCC GAC TTC CTG ACT CTC ACC TGT ACT ATT

1899 1908 1917 1926 1935 1944  
GCA GAC CTG TCA CCC TGC AGG ACT TGC CAC CCC CAG TTC CTA TGA CAC AGT TAT  
CAA AAA GTA TTA TCA TTG CTC CCC TGA TAG AAG ATT GTT GGT GAA TTT TCA AGG

FIGURE 1E

2007	2016	2025	2034	2043	2052
CCT TCA GTT TAT TTC CAC TAT TTT CAA AGA AAA TAG ATT AGG TTT GCG GGC GTC					
2061	2070	2079	2088	2097	2106
TGA GTC TAT GTT CAA AGA CTG TGA ACA GCT TGC TGT CAC TTC TTC ACC TCT TCC					
2115	2124	2133	2142	2151	2160
ACT CCT TCT CTC ACT GTG TTA CTG CTT TGC AAA GAC CCG GGA GCT GGC GGC GAA					
2169	2178	2187	2196	2205	2214
CCC TGG GAG TAG CTA GTT TGC TTT TTG CGT ACA CAG AGA AGG CTA TGT AAA CAA					
2223	2232	2241	2250	2259	2268
ACC ACA GCA GGA TCG AAG GGT TTT TAG AGA ATG TGT TTC AAA ACC ATG CCT GGT					
2277	2286	2295	2304	2313	2322
ATT TTC AAC CAT AAA AGA AGT TTC AGT TGT CCT TAA ATT TGT ATA ACG GTT TAA					
2331	2340	2349	2358	2367	2376
TTC TGT CTT GTT CAT TTT GAG TAT TTT TAA AAA ATA TGT CGT AGA ATT CCT TCG					
2385	2394	2403	2412	2421	2430
AAA GGC CTT CAG ACA CAT GCT ATG TTC TGT CTT CCC AAA CCC AGT CTC CTC TCC					
2439	2448	2457	2466	2475	2484
ATT TTA GCC CAG TGT TTT CTT TGA GGA CCC CTT AAT CTT GCT TTC TTT AGA ATT					

FIGURE 1F

2493	2502	2511	2520	2529	2538
TTT ACC CAA TTG GAT TGG AAT GCA GAG GTC TCC AAA CTG ATT AAA TAT TTG AAG					
2547					
AGA AAA AAA AAA					

FIGURE 1G



1000 1000 1000 1000 1000 1000 1000 1000 1000 1000  
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000  
 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000

9	18	27	36	45	54
TG GGT GCA AGC TCA CAA CCG TAA CAG CCA CCA GAC AAG CTT CAG TGG CCG GCC					
63	72	81	90	99	108
CTT CAC ATC CAG ACT TGC CTG AGA GGA CCC ACC TCT GAG TGT CCA GTG GTC AGT					
117	126	135	144	153	162
TGC CCC AGG ATG GGG ACC ACA GCC AGA GCA GCC TTG GTC TTG ACC TAT TTG GCT					
M G T T A R A A A L V L Y L A					
171	180	189	198	207	216
GTT GCT TCT GCT GCC TCT GAG GGA GGC TTC ACG GCT ACA GGA CAG AGG CAG CTG					
V A S A A S E G G F T A T G Q R Q L					
225	234	243	252	261	270
AGG CCA GAG CAC TTT CAA GAA GTT GGC TAC GCA GCT CCC CCC CCA CCC CTA					
R P E H F Q E V G Y A A P P S P L					
279	288	297	306	315	324
TCC CGA AGC CTC CCC ATG GAT CAC CCT GAC TCC TCT CAG CAT GGC CCT CCC TTT					
S R S L P M D H P D S S S Q H G P P F					
333	342	351	360	369	378
GAG GGA CAG AGT CAA GTG CAG CCC CCT CCC TCT CAG GAG GCC ACC CCT CTC CAA					
E G Q S Q V Q P P P S Q Q E A T P L Q					

FIGURE 2A

387	CAG GAA AAG CTG CTA CCT GCC CAA CTC CCT GCT GAA AAG GAA GTG GGT CCC CCT	405	414	423	432
Q E K L L P A Q L P A E K E V G P P					
441	CTC CCT CAG GAA GCT GTC CCC CTC CAA AAA GAG CTG CCC TCT CTC CAG CAC CCC	459	468	477	486
L P Q E A V P L Q K E L P S L Q H P					
495	AAT GAA CAG AAG GAA GGA ATG CCA GCT CCA TTT GGG GAC CAG AGC CAT CCA GAA	513	522	531	540
N E Q K E G M P A P F G D Q S H P E					
549	CCT GAG TCC TGG AAT GCA GCC CAG CAC TGC CAA CAG GAC CGG TCC CAA GGG GGC	567	576	585	594
P E S W N A A Q H C Q Q D R S Q G G					
603	TGG GGC CAC CGG CTG GAT GGC TTC CCC CCT GGG CGG CCT TCT CCA GAC AAT CTG	621	630	639	648
W G H R L D G F P P G R P S S P D N L					
657	AAC CAA ATC TGC CTT CCT AAC CGT CAG CAT GTG GTA TAT GGT CCC TGG AAC CTA	675	684	693	702
N Q I C L P N R Q H V V Y G P W N L					
711	CCA CAG TCC AGC TAC TCC CAC CTC ACT CGC CAG GGT GAG ACC CTC AAT TTC CTG	729	738	747	756
P Q S S Y S H L T R Q G E T L N F L					

FIGURE 2B



1143 1152 1161 1170 1179 1188  
 CAG CTG GAG AGG GAG TTC CAG CGC TGC TGC CGC CAG GGG AAC AAT CAC ACC TGT  
 Q L E R E F Q R C C R Q G N N H T C

1197 1206 1215 1224 1233 1242  
 ACA TGG AAG GCC TGG GAG GAT ACC CTT GAC AAA TAC TGT GAC CGG GAG TAT GCT  
 T W K A A W E D T L D K Y C D R E Y A

1251 1260 1269 1278 1287 1296  
 GTG AAG ACC CAC CAC CAC TTG TGT TGC CGC CAC CCT CCC AGC CCT ACT CGG GAT  
 V K T H H H L C C R H P P S P T R D

1305 1314 1323 1332 1341 1350  
 GAG TGC TTT GCC CGT CGG GCT CCT TAC CCC AAC TAT GAC CGG GAC ATC TTG ACC  
 E C F A R R A P Y P N Y D R D I L T

1359 1368 1377 1386 1395 1404  
 ATT GAC ATC GGT CGA GTC ACC CCC AAC CTC ATG GGC CAC CTC TGT GGA AAC CAA  
 I D I G R V T P N L M G H L C G N Q

1413 1422 1431 1440 1449 1458  
 AGA GTT CTC ACC AAG CAT AAA CAT ATT CCT GGG CTG ATC CAC AAC ATG ACT GCC  
 R V L T K H K H I P G L I H N M T A

1467 1476 1485 1494 1503 1512  
 CGC TGC TGT GAC CTG CCA TTT CCA GAA CAG GCC TGC TGT GCA GAG GAG AAA  
 R C C D L P F P E Q A C C A E E E K

FIGURE 2D

1521	TTA ACC TTC ATC AAT GAT CTG TGT GGT CCC CGA CGT AAC ATC TGG CGA GAC CCT	1530	1539	1548	1557	1566
L T F I N D L C G P R R R I W R D P						
1575	GCC CTC TGC TGT TAC CTG AGT CCT GGG GAT GAA CAG GTC AAC TGC TTC AAC ATC	1584	1593	1602	1611	1620
A L C C Y L S P G D E Q V N C F N I						
1629	AAT TAT CTG AGG AAC GTG GCT CTA GTG TCT GGA GAC ACT GAG AAC GCC AAC GGC	1638	1647	1656	1665	1674
N Y L R N V A L V S G D T E N A K G						
1683	CAG GGG GAG CAG GGC TCA ACT GGA GGA ACA AAT ATC AGC TCC ACC TCT GAG CCC	1692	1701	1710	1719	1728
Q G E Q G S T G G T N I S S T S E P						
1737	AAG GAA GAA TGA GTC ACC CCA GAG CCC TAG AGG GTC AGA TGG GGG GAA CCC CAC	1746	1755	1764	1773	1782
K E E						
1791	CCT GCC CCA CCC ATC TGA ACA CTC ATT ACA CTA AAC ACC TCT TGG ATT TGG TGT	1800	1809	1818	1827	1836
1845	CCT CAT TGT CTA TCT AAT GTC TCA CCC GCA GTG TTT TAA GTG GAT CTT GGT GCC	1854	1863	1872	1881	1890
1899	CTG GCC CAG G					

FIGURE 2E

1	M P G I K R I L T V T I L A L C L P S P	45517
1	M A T S G V L P G G G F V A S A A A V A	GI 458228
21	G N A Q A Q C T N G F D L D R Q S G Q C	45517
21	G P E M Q T G R N N F V I R R N P A D -	GI 458228
41	L D I D E C R T I P E A C R G D M M C V	45517
40	- - - - -	GI 458228
61	N Q N G G Y L C I P R T N P V Y R G P Y	45517
40	- - - - -	GI 458228
81	S N P Y S T P Y S G P Y P A A A P P L S	45517
40	- - - - - P Q R	GI 458228
101	A P N Y P T I S R P L I C R F G Y Q M D	45517
43	I P S N P - - S H R I Q C A A G Y E Q S	GI 458228
121	E S N Q C V D V D E C A T D S H Q C N P	45517
61	E H N V C Q D I D E C T A G T H N C R A	GI 458228
141	T Q I C I N T E G G Y T C S C T D G Y W	45517
81	D Q V C I N L R G S F A C Q C P P G Y Q	GI 458228
161	L L E G Q C L D I D E C R Y G - Y C Q Q	45517
101	K R G E Q C V D I D E C T I P P Y C H Q	GI 458228
180	L C A N V P G S Y S C T C N P G F T L N	45517
121	R C V N T P G S F Y C Q C S P G F Q L A	GI 458228
200	E D G R S C Q D V N E C A T E N P C V Q	45517
141	A N N Y T C V D I N E C D A S N Q C A Q	GI 458228
220	T C V N T Y G S F I C R C D P G Y E L E	45517
161	Q C Y N I L G S F I C Q C N Q G Y E L S	GI 458228

FIGURE 3A

240 E D G V H C S D M D E C S F S E F L C Q 45517  
181 S D R L N C E D I D E C R T S S Y L C Q GI 458228

260 H E C V N Q P G T Y F C S C P P G Y I L 45517  
201 Y Q C V N E P G K F S C M C P Q G Y Q V GI 458228

280 L D D N R S C Q D I N E C E H R N H T C 45517  
221 V R - S R T C Q D I N E C E T T N E - C GI 458228

300 N L Q Q T C Y N L Q G G F K C I D P I R 45517  
239 R E D E M C W N Y H G G F R C Y P R N P GI 458228

320 C E E P Y L R I S D N R C M C P A E N P 45517  
259 C Q D P Y I L T P E N R C V C P V S N A GI 458228

340 G C R D Q P F T I L Y R D M D V V S G R 45517  
279 M C R E L P Q S I V Y K Y M S I R S D R GI 458228

360 S V P A D I F Q M Q A T T R Y P G A Y Y 45517  
299 S V P S D I F Q I Q A T T I Y A N T I N GI 458228

380 I F Q I K S G N E G R E F Y M R Q T G P 45517  
319 T F R I K S G N E N G E F Y L R Q T S P GI 458228

400 I S A T L V M T R P I K G P R E I Q L D 45517  
339 V S A M L V L V K S L S G P R E H I V D GI 458228

420 L E M I T V N T V I N F R G S S V I R L 45517  
359 L E M L T V S S I G T F R T S S V L R L GI 458228

440 R I Y V S Q Y P F 45517  
379 T I I V G P F S F GI 458228

FIGURE 3B

1	M G T T A R A A L V L T Y L A V A S A A	1621777
1	M G T V S R A A L I L A C L A L A S A A	GI 496120
21	S E G G F T A T G Q R Q L R P E - - - -	1621777
21	S E G A F K A S D Q R E M T P E R L F Q	GI 496120
37	H F Q E V G Y A A P P S P P L S R S L P	1621777
41	H L H E V G Y A A P P S L P Q T R R L R	GI 496120
57	M D H P D S S Q H G P P - F E G Q S Q V	1621777
61	V D H S V T S L H D P P L F E E Q R E V	GI 496120
76	Q P P P S Q E A T P L Q Q E K L L P A Q	1621777
81	Q P P S S P E D I P V Y E E D W P T F L	GI 496120
96	L P A E K E V G P P L P Q E A V P L Q K	1621777
101	N P N V D K A G P A V P Q E A I P L Q K	GI 496120
116	E L P S L Q - - - - - - - - - - H P	1621777
121	E Q P P P Q V H I E Q K E I D P P A Q P	GI 496120
124	N E - - - Q K E G M P A P F G D Q S H P	1621777
141	Q E E I V Q K E V K P H T L A G Q L P P	GI 496120
141	E P E S W N A A Q H C Q Q D R S Q G G W	1621777
161	E P R T W N P A R H C Q Q G R - R G V W	GI 496120
161	G H R L D G F P P G R P S P D N L N Q I	1621777
180	G H R L D G F P P G R P S P D N L K Q I	GI 496120
181	C L P N R Q H V V Y G P W N L P Q S S Y	1621777
200	C L P E R Q H V I Y G P W N L P Q T G Y	GI 496120
201	S H L T R Q G E T L N F L E I G Y S R C	1621777
220	S H L S R Q G E T L N V L E T G Y S R C	GI 496120

FIGURE 4A



221 C H C R S H T N R L E C A K L V W E E A 1621777  
240 C P C R S D T N R L D C L K L V W E D A GI 496120

241 M S R F C E A E F S V K T R P H W C C T 1621777  
260 M T Q F C E A E F S V K T R P H L C C R GI 496120

261 R Q G E A R F S C F Q E E A P Q P H Y Q 1621777  
280 L R G E E R F S C F Q K E A P R P D Y L GI 496120

281 L R A C P S H Q P D I S S G L E L P F P 1621777  
300 L R P C P V H Q N G M S S G P Q L P F P GI 496120

301 P G V P T L D N I K N I C H L R R F R S 1621777  
320 P G L P T P D N V K N I C L L R R F R A GI 496120

321 V P R N L P A T D P L Q R E L L A L I Q 1621777  
340 V P R N L P A T D A I Q R Q L Q A L T R GI 496120

341 L E R E F Q R C C R Q G N N H T C T W K 1621777  
360 L E T E F Q R C C R Q G H N H T C T W K GI 496120

361 A W E D T L D K Y C D R E Y A V K T H H 1621777  
380 A W E G T L D G Y C E R E L A I K T H P GI 496120

381 H L C C R H P P S P T R D E C F A R R A 1621777  
400 H S C C H Y P P S P A R D E C F A H L A GI 496120

401 P Y P N Y D R D I L T I D I G R V T P N 1621777  
420 P Y P N Y D R D I L T L D L S R V T P N GI 496120

421 L M G H L C G N Q R V L T K H K H I P G 1621777  
440 L M G Q L C G S G R V L S K H K Q I P G GI 496120

441 L I H N M T A R C C D L P F P E Q A C C 1621777  
460 L I Q N M T V R C C E L P Y P E Q A C C GI 496120

FIGURE 4B

461	A E E E K L T F I N D L C G P R R N I W	1621777
480	G E E E K L A F I E N L C G P R R N S W	GI 496120
481	R D P A L C C Y L S P G D E Q V N C F N	1621777
500	K D P A L C C D L S P E D K Q I N C F N	GI 496120
501	I N Y L R N V A L V S G D T E N A K G Q	1621777
520	T N Y L R N V A L V A G D T G N A T G L	GI 496120
521	G E Q G S T G G T N I S S T S E P K E E	1621777
540	G E Q G P T R G T D A N P A P G S K E E	GI 496120

FIGURE 4C